AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

(Currently Amended) A turbine <u>having multiple turbine stages</u>, a third <u>turbine stage</u> comprising:

a wheel having ninety broach slots with the wheel material between each adjacent pair of slots forming a wheelpost, each <u>wheelpost</u> one-having an interleaved system of <u>three</u> fillets and <u>three</u> tangs <u>symmetrically formed on either side of a centerline along a longitudinal axis of each of said wheelposts; and</u>

ninety buckets each having a corresponding interleaved system of three fillets and three tangs <a href="mailto:symmetrically formed on either side of a centerline along a longitudinal axis of each of said bucket so that said ninety buckets can be fitted one to one into said ninety broach slots on said wheel;

said interleaved system of fillets and tangs on said buckets and wheelposts reducing stresses acting on said fitted buckets and wheelposts.

Claim 2 (Canceled).

3. (Currently Amended) A turbine as claimed in claim 1, 2, wherein each of said buckets having a bottom tang formed from curved surfaces having more than one radius of curvature.

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4. (Original) A turbine as claimed in claim 3, wherein each of said buckets

further includes at least one straight surface.

5. (Currently Amended) A turbine as claimed in claim 1, 2, wherein each of

said wheelposts having a bottom fillet formed from curved surfaces having more than

one radius of curvature.

6. (Original) A turbine as claimed in claim 5, wherein each of said

wheelposts further includes at least one straight surface.

7. (Currently Amended) A turbine as claimed in claim 3, wherein said curved

surfaces have radii radius of curvatures of .1992 inches and .3360 inches.

8. (Currently Amended) A turbine as claimed in claim 5, wherein said curved

surfaces have radii radius of curvatures of .2052 inches and .3420 inches.

9. (Original) A turbine as claimed in claim 1, wherein a top edge of each one

of said wheelposts being scalloped so as to reduce the weight of said wheel.

10. (Original) A turbine having multiple turbine stages, a third turbine stage

comprising:

a wheel having a plurality of wheelposts, each having an interleaved system of

fillets and tangs; and

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a plurality of buckets each having a corresponding interleaved system of fillets and tangs so that said plurality of buckets can be fitted, one to one, into said plurality of wheelposts on said wheel;

wherein said interleaved system of fillets and tangs on said buckets and wheelposts act to reduce stresses acting on said fitted buckets and wheelposts, the fillets and tangs of said interleaved system of fillets and tangs each being formed by a combination of curved and straight surfaces;

wherein-the an angle formed by tangent lines along the upper most tangs on either side of a center line bisecting each of said buckets is approximately fillets formed on said plurality of buckets have angles ranging from 50° to 59°.

11. (Original) A turbine <u>having multiple turbine stages</u>, a third turbine stage comprising:

a wheel having a plurality of broach slots, each one having an interleaved system of fillets and tangs; and

a plurality of buckets each having a corresponding interleaved system of fillets and tangs so that said plurality of buckets can be fitted, one to one, into said plurality of broach slots on said wheel;

wherein said interleaved system of fillets and tangs on said buckets and wheelposts act to reduce stresses acting on said fitted buckets and wheelposts, the fillets and tangs of said interleaved system of fillets and tangs each being formed by a combination of curved and straight surfaces;

wherein an angle 2E formed by tangent lines along the upper most tangs on either side of a center line bisecting each of said wheelposts is approximately the fillets formed on said plurality of wheelposts have angles ranging from 50° to 59°.

- 12. (Original) A turbine as claimed in claim 11, wherein the fillets formed on said plurality of buckets have angles ranging from 50° to 59°.
- 13. (Original) A turbine as claimed in claim 10, each one of said buckets and wheelposts having three interleaved tangs and fillets.
- 14. (Original) A turbine as claimed in claim 13, wherein each of said buckets having a bottom tang formed from curved surfaces having more than one radius of curvature.
- 15. (Original) A turbine as claimed in claim 14, wherein each of said buckets further includes at least one straight surface.
- 16. (Original) A turbine as claimed in claim 10, wherein each of said wheelposts having a bottom fillet formed from curved surfaces having more than one radius of curvature.
- 17. (Original) A turbine as claimed in claim 16, wherein each of said wheelposts further includes at least one straight surface.

- 18. (Currently Amended) A turbine as claimed in claim 14, wherein said curved surfaces have <u>radii</u> radius-of curvatures of .1992 inches and .3360 inches.
- 19. (Currently Amended) A turbine as claimed in claim 16, wherein said curved surfaces have radii radius of curvatures of .2052 inches and .3420 inches.
- 20. (Original) A turbine as claimed in claim 10, wherein a top surface of each one of said wheelposts being scalloped so as to reduce the weight of said wheel.
- 21. (Original) A turbine as claimed in claim 11, each one of said buckets and wheelposts having three interleaved tangs and fillets.
- 22. (Original) A turbine as claimed in claim 21, wherein each of said buckets having a bottom tang formed from curved surfaces having more than one radius of curvature.
- 23. (Original) A turbine as claimed in claim 22, wherein each of said buckets further includes at least one straight surface.
- 24. (Original) A turbine as claimed in claim 21, wherein each of said wheelposts having a bottom fillet formed from curved surfaces having more than one radius of curvature.
- 25. (Original) A turbine as claimed in claim 11, wherein each of said wheelposts further includes at least one straight surface.

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26. (Currently Amended) A turbine as claimed in claim 22, wherein said

curved surfaces have <u>radii</u> radius of curvatures of <u>.1992</u> .1492 inches and .3360

inches.

27. (Currently Amended) A turbine as claimed in claim 24, wherein said

curved surfaces have radii radius of curvatures of .2052 inches and .3420 inches.

28. (Original) A turbine as claimed in claim 11, wherein a top edge of each

one of said wheelposts being scalloped so as to reduce the weight of said wheel.

29. (Currently Amended) A bucket for insertion into a wheelpost of a turbine

rotor in a third stage of a turbine, said bucket being formed from interleaved fillets and

tangs which complement interleaved fillets and tangs formed in the wheelpost, an angle

2E angles of the fillets formed by tangent lines along the upper most tangs on either

side of centerline bisecting each of said buckets being approximately in bucket ranging

from-50°-to-59°.

30. (Original) A bucket as claimed in claim 29, said bucket having three

interleaved tangs and fillets.

31. (Original) A bucket as claimed in claim 30, said bucket having a bottom

tang formed from curved surfaces having more than one radius of curvature.

32. (Original) A bucket as claimed in claim 31, said bucket further including at

least one straight surface.

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33. (Original) A bucket as claimed in claim 31, said curved surfaces having

radii of curvatures of .1992 inches and .3360 inches.

34. (Original) A bucket as claimed in claim 30, said bucket having an upper

tang formed from curved surfaces having more than one radius of curvature.

35. (Original) A bucket as claimed in claim 31, said bucket having an upper

tang formed from curved surfaces having more than one radius of curvature.

36. (Original) A bucket as claimed in claim 34, said bucket further including at

least one straight surface.

37. (Original) A bucket as claimed in claim 30, said bucket having an

intermediate tang formed from curved surfaces having more than one radius of

curvature.

38. (Original) A bucket as claimed in claim 31, said bucket having an

intermediate tang formed from curved surfaces having more than one radius of

curvature.

39. (Original) A bucket as claimed in claim 35, said bucket having an

intermediate tang formed from curved surfaces having more than one radius of

curvature.

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(Original) A bucket as claimed in claim 37, said bucket further including at 40. least one straight surface.